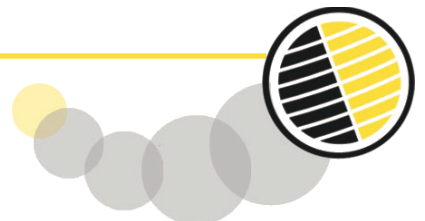




MATCHING NETWORK GGK-MM1

In every plasma system the matching network is a critical component. The purpose of the adapter is to transform the complex and variable impedance of the plasma load into 50 ohm resistive lines through the transmission line (coaxial cable) and to operate the generator efficiently. We currently produce a line of manual and automatic adaptation networks for HF (13.56 MHz) in customized versions.



Quality and selection of components.

The most critical component in each matching network is represented by the elements with variable reactance. Gambetti Kenologia uses *high quality variable air condensers*, equipped with double sliding contact for currents up to 3000Volts. Above this limit, Comet vacuum capacitors are used. For power levels up to 1K-watt, the capacitors in the air are generally the best solution: they move faster, in relation to the models in vacuum, and the tuning can be obtained in less than 2 seconds. GGK-AM1 is the flagship version of our adaptation networks, robust, very reliable and with all the necessary solutions to make installation, configuration and operation easy and immediate. Considering that the impedance of the plasma is usually unknown, we have made considera-

ble design efforts to provide a rapid tuner configuration: different coil configurations are available. The standard spool is made with a 6mm copper tube coated in silver, with 4 configurable intermediate sockets. Available from 3-4-5-6 coils. The instrument is equipped with mounting holes and brackets to assemble up to 3 fixed pad capacitors.

FIELDS OF USE

- Production of PVD and PECVD systems
- Research and Development

FEATURES AND BENEFITS

Possibility of presets

Both capacitor positioning channels can work independently in AUTO - HOLD - PRESET mode. This flexibility is an exclusive feature of the adaptation network of our production.

Quick tuning. With an optimal pre-set of less than 1 second

This unit can work on all types of loads without problems, including short circuits and open circuits for an unlimited time. The WSWR limit is 50Watt. This makes the generator an ideal solution for use in combination with the GGK_MM2 model adaptation network.

All I/O are optically isolated.

24V digital signals, 10V analog full scale

Output connector type 7/16

Diagnostic LED on the front panel

Each capacitor has its own potentiometer for HI - Low limitation, which can be set by the user. **This is another exclusive**

